

Certification of First Class Mailing
I hereby certify that this correspondence is being deposited with the
United States Postal Service as first class mail in an envelope
addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box
1450, Alexandria, VA 22313-1450 on APRIL 14, 2004

#13

DONITA KONRAD

Name.

Donita Konrad

Signature

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 09/889,053
Applicant(s) : Thomas Woods Keough, et al.
Filed : 12 January 2000
Title : Methods and Kits for Sequencing Polypeptides
TC/A.U. : Not Yet Assigned
Examiner : Not Yet Assigned
Conf. No. : 6283
Docket No. : 7379M
Customer No. : 27752

RECEIVED

APR 21 2004

OFFICE OF PETITIONS

RESPONSE TO NOTIFICATION OF DEFECTIVE RESPONSE

Mail Stop PCT
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INTRODUCTORY REMARKS

In response to the Notification of Defective Response mailed on March 20, 2003, please consider the following remarks.

The Applicants further submit herewith a Petition to Revive the present application as Unintentionally Abandoned as the Applicants did not file a response to the Notification of Defective Response by the extended date of September 20, 2003.

Remarks begin on page 2 of this paper.

REMARKS

Claims 1 to 10 are pending in the present application. No additional claims fee is believed to be due.

The Applicants have amended the Sequence Listing of the present application to overcome the purported deficiencies described in the Notification of Defective Response (hereinafter referred to as "Notification") mailed to the Applicants on March 20, 2003. Specifically, the Notification states that the Applicants use of the 3-letter abbreviation "Xaa" in Sequence ID No. 4. necessitates the Applicants' provision of information for entries 220 to 223. Rather than provide responses to entries 220 to 223, the Applicants have removed the "Xaa" abbreviation, and have replaced it with the three-letter abbreviation for cysteic acid, "Cya." The Applicants have inserted the three-letter code "Cya" in place of "Xaa" in positions 7 and 19 of Sequence ID NO. 4. Support for the Applicants' inclusion of the three-letter code "Cya" is found on page 19 of the present specification under the heading "Example 13." This section of the present application states, in pertinent part,

PSD MALDI tandem mass spectrometry of high-mass polypeptides is demonstrated with oxidized insulin B-chain FVNQHLC(SO₃H)GSHLVEALYLVC(SO₃H)GERGFFYTPKA (SEQ ID NO: 4) (MMcalc = 3495.9 Da) (commercially available from Sigma Chemical Co., St. Louis, MO). See Page 19; Example 13.

The Applicants submit that the amino acid sequence of Sequence ID NO: 4, which is commercially available from Sigma Chemical, contains cysteic acid at positions 7 and 19. The Applicants submit that the 3-letter abbreviation for cysteic acid is "Cya." Support for the Applicants position may be found at the following Internet web address: <http://www.chem.qmul.ac.uk/iupac/AminoAcid/AAap.html>, under the heading "Nomenclature and Symbolism for Amino Acids and Peptides."

The Applicants submit herewith an amended sequence listing in paper copy and computer readable form, both of which reflect the above change with respect to "Xaa" in positions 7 and 19 of Sequence ID NO: 4. The Applicants respectfully request entry of this sequence into the present application. The Applicants further submit herewith a Statement Under 37 CFR 1.82, asserting that the content of the paper and computer readable copies of the Sequence Listing are the same.


It is believed these changes do not involve any introduction of new matter. Consequently, entry of these changes is believed to be in order and is respectfully requested.

Conclusion

In light of the above remarks, it is requested that the enclosed Sequence Listing be entered and that the present application be substantively examined. Early and favorable action in the case is respectfully requested.

Applicants have made an earnest effort to place their application in proper form substantive examination. In view of the foregoing, Applicants respectfully request acceptance of the present application and examination on the merits.

Respectfully submitted,
Thomas Woods Keough, et al.

By 
Frank Taffy
Attorney for Applicants
Registration No. 52,270
(513) 634-9315

14 - APRIL, 2004
Customer No. 27752

Response to "Notification of Defective Response" mailed on 03/20/2003

FAXED
4 3 03

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents, Box 901
United States Patent and Trademark Office
Washington, D.C. 20260
www.uspto.gov

U.S. APPLICATION NUMBER 09/888,888	FIRST NAMED APPLICANT Thomas Woods Keough	ATTY. DOCKET NO. 7379M
---------------------------------------	--	---------------------------

27748

THE PROCTER & GAMBLE COMPANY
PATENT DIVISION
MIAMI VALLEY LABORATORIES
P.O. BOX 538707
CINCINNATI, OH 45253-8707

CENTRAL DOCKETING
Atty/GBU Contact: FTI/DJR
DATE REC'D APR 2 2003
FAY MAIL

INTERNATIONAL APPLICATION NO.

PCT/US00/00790

I.A. FILING DATE

PRIORITY DATE

01/12/2000

CONFIRMATION NO. 6283

371 FORMALITIES LETTER



OC000000009669847

Date Mailed: 03/20/2003

NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as an Elected Office (37 CFR 1.495):

- U.S. Basic National Fee
- Biochemical Sequence Diskette
- Biochemical Sequence Listing
- Copy of IPE Report
- Copy of references cited in ISR
- Copy of the International Application
- Copy of the International Search Report
- Information Disclosure Statements
- Oath or Declaration
- Preliminary Amendments

RECEIVED
APR 21 2004
OFFICE OF PETITIONS

Applicant's response filed 03/13/2003 is hereby acknowledged. The following requirements set forth in the NOTIFICATION of MISSING REQUIREMENTS mailed 03/19/2002 have not been completed.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

Applicant is required to complete the response within a time limit of **ONE MONTH** from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended under 37 CFR 1.136(a).

The following items **MUST** be furnished within the period set forth below:

- The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821-1.825 for the following reason(s):
 - RAWSEQUENCE LISTING ERROR REPORT
 - APPLICANT MUST PROVIDE:
 - An initial or substitute computer readable form (CRF) of the "Sequence Listing."
 - An initial or substitute paper copy or compact disc of the "Sequence Listing," as well as an amendment directing its entry into the specification.
- For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:
 - For Rules Interpretation, call (703) 308-4216
 - To Purchase PatentIn Software, call (703) 306-2600
 - For PatentIn Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

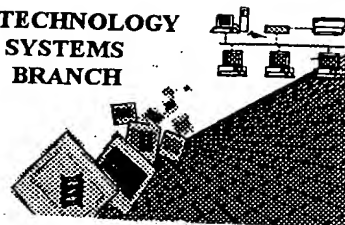
*A copy of this notice **MUST** be returned with the response.*

DEBORAH D WILLIAMS

Telephone: (703) 305-3744

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
09/889,053	PCT/US00/00790	7379M



RAW SEQUENCE LISTING ERROR REPORT

McW

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/889,053B
Source: PCT09
Date Processed by STIC: 3/13/03

RECEIVED

APR 21 2004

OFFICE OF PETITIONS

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



Does Not Comply
Corrected Diskette Needed

P

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/889,053B

DATE: 03/13/2003

TIME: 14:52:54

Input Set : A:\7379p2.app

Output Set: N:\CRF4\03132003\I889053B.raw

5 <110> APPLICANT: Keough, Thomas W.
 7 Youngquist, Robert S.
 11 <120> TITLE OF INVENTION: Methods and Kits for Sequencing Polypeptides
 15 <130> FILE REFERENCE: Methods/Kits for Sequencing Polypeptid
 C--> 19 <140> CURRENT APPLICATION NUMBER: US/09/889,053B
 C--> 21 <141> CURRENT FILING DATE: 2002-07-25
 25 <160> NUMBER OF SEQ ID NOS: 9
 29 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

93 <210> SEQ ID NO: 4
 95 <211> LENGTH: 30
 97 <212> TYPE: PRT
 99 <213> ORGANISM: bovine insulin
 103 <400> SEQUENCE: 4
 E--> 105 Phe Val Asn Gln His Leu Xaa Gly Ser His Leu Val Glu Ala Leu Tyr
 107 1 5 10 15
 E--> 111 Leu Val Xaa Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Ala
 113 20 25 30

→ Xaa in sequence, feature required
 See p. 3

RECEIVED
 APR 21 2004
 OFFICE OF PETITIONS

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/889,053B

DATE: 03/13/2003
TIME: 14:52:55

Input Set : A:\7379p2.app
Output Set: N:\CRF4\03132003\I889053B.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41
Seq#:1; Line(s) 43,45,47,49,51,53
Seq#:2; Line(s) 55,57,59,61,63,65,67,69,71,73
Seq#:3; Line(s) 75,77,79,81,83,85,87,89,91,93
Seq#:4; Line(s) 95,97,99,101,103,105,107,109,111,113,115,117,119
Seq#:5; Line(s) 121,123,125,127,129,131,133,135,137,139
Seq#:6; Line(s) 141,143,145,147,149,151,153,155,157,159
Seq#:7; Line(s) 161,163,165,167,169,171,173,175,177,179
Seq#:8; Line(s) 181,183,185,187,189,191,193,195,197,199
Seq#:9; Line(s) 201,203,205,207,209,211,213,215,217,219,221,223,225,227,229
Seq#:9; Line(s) 231

VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/09/889,053B

DATE: 03/13/2003

TIME: 14:52:55

Input Set : A:\7379p2.app

Output Set: N:\CRF4\03132003\I889053B.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which
idue n or Xaa represents.

Seq#:4; Xaa Pos. 7,19

VERIFICATION SUMMARYPATENT APPLICATION: **US/09/889,053B**

DATE: 03/13/2003

TIME: 14:52:55

Input Set : **A:\7379p2.app**Output Set: **N:\CRF4\03132003\I889053B.raw**

L:19 M:270 C: Current Application Number differs, Replaced Current Application Number
L:21 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:105 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4
M:340 Repeated in SeqNo=4
)

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☒ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☒ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.